Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

OUT58679

P 012205Z
FM NPIC

1966 JUN 1 23 08Z

25X1

multi

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN

25X1

25X1

ZEM
T O P S E C R E T CITE NPIC 7349.

SUBJECT: CAMERA INFORMATION FOR MISSION 1033-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA AND AN INDEX CAMERA.

2 JUN 1966
DISTRIBUTION 7

Cy No.	Office
1	File
	OS
	ADMIN
	SEC BR
	P & DS
	CSD
	IPD
	PD
	PSD
	PSD-ICB
3,4,5	TID
	IAD
	PAG
	DIAXX-4
	SPAD
	NSA-LO
	DIA-AP

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.602	609.602	FWD 55.00	FWD 55.00
			AFT 55.00	AFT 54.90
FILTER (WRATTEN NO.)	21	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.200	.200	1/100	1/100
EXPOSURE (SEC)				
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	187	192	NA	NA

Advance 25X1
Sanitized

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

B. S/I UNITS		STELLAR	INDEX
FOCAL LENGTH (MM)	PART 1	84 NOM	38.45
	PART 2	83.9825	38.2293
FILTER (WRATTEN NO.)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		2.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		74
	PART 2		73
UNIT NUMBER	PART 1	D91/105/109	
	PART 2	D84/75/102	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.000	.000	.000	.000	.000	.002	.003
AFT UNIT	.003	.001	.000	.000	.000	.000	.001

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.010	.010	.020	.020
20 DEGREES	.040	.040	.070	.050
(TANGENTIAL) MAX VECTOR	.015	.030	.010	.020

4. CAMERA ANGLES

		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	43.94
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	11
	FWD PORT	15	38
	AFT STAR	15	41

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

	AFT PORT	15	40
C. ANGLE BETWEEN STELLAR AND	PART 1	NA	NA
INDEX CAMERAS	PART 2	89	53.75

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
2	.4182	.0378	9	.0330	.0030	1D1 THRU 4A1
4	.3867	.0350	8	.0490	.0044	6D1 THRU 24D1
3	.4033	.0365	8	.0490	.0044	31D1 THRU 82D2

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D1	24	03	28	09	2751	48
2A1	24	04	39	45	1809	38
2A2	24	04	42	34	1978	52
3A1	24	06	09	30	1854	243
4A1	24	07	38	30	1854	267
6D1	24	10	51	46	2562	92
6D2	24	10	56	08	2823	32
7D1	24	12	17	40	2376	35

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

7D2	24	12	19	51	2507	41
7D3	24	12	23	38	2734	29
8D1	24	13	49	12	2529	198
9D1	24	15	20	13	2651	113
10A1	24	16	29	59	1497	50
15A1	24	23	50	13	1213	84
15A2	24	23	52	41	1360	34
15A3	24	23	54	30	1469	121
16A1	25	01	27	20	1700	18
16D1	25	01	48	20	2960	41
18A1	25	04	23	46	1608	35
18A2	25	04	26	35	1777	49
19A1	25	05	53	30	1654	122
19A2	25	05	56	37	1841	53
22D1	25	10	35	30	2559	30
22D2	25	10	39	53	2822	29
23D1	25	12	00	07	2299	110
23D2	25	12	03	34	2506	41
23D3	25	12	05	48	2640	29
23D4	25	12	07	21	2733	29
24D1	25	13	31	19	2433	292
31D1	25	23	36	07	1459	34
32A1	26	01	10	44	1799	46
32D1	26	01	31	43	3059	41
34A1	26	04	07	05	1706	35

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

34A2	26	04	09	54	1876	49
35A1	26	05	36	47	1753	122
35A2	26	05	39	54	1940	52
36A1	26	07	05	43	1752	264
38D1	26	10	18	41	2659	30
38D2	26	10	23	04	2922	29
39D1	26	11	43	16	2398	111
39D2	26	11	46	42	2605	41
39D3	26	11	48	56	2738	30
39D4	26	11	50	30	2832	29
40D1	26	13	14	25	2531	293
47A1	26	23	16	26	1311	84
48A1	27	00	53	27	1798	45
48D1	27	01	14	25	3056	42
50A1	27	03	49	40	1705	218
51A1	27	05	19	19	1751	121
51A2	27	05	22	26	1938	52
53D1	27	08	33	20	2728	48
54D1	27	10	01	02	2657	91
54D2	27	10	05	25	2920	29
54D3	27	10	09	45	3180	152
55D1	27	11	25	33	2395	250
55D2	27	11	31	15	2737	30
55D3	27	11	32	49	2831	29
56D1	27	12	58	16	2625	197

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

63A1	27	22	58	17	1311	83
63A2	27	23	00	44	1458	34
64A1	28	00	35	14	1797	46
65A1	28	01	51	46	1059	24
65A2	28	02	01	31	1643	162
66A1	28	03	31	24	1706	217
67A1	28	05	00	57	1749	241
68A1	28	06	29	47	1749	265
69A1	28	08	04	40	2113	60
69D1	28	08	14	53	2725	49
70D1	28	09	42	32	2655	30
70D2	28	09	46	54	2917	30
71D1	28	11	07	01	2394	111
71D2	28	11	10	27	2601	42
71D3	28	11	12	41	2735	30
71D4	28	11	14	15	2829	29
72D1	28	12	38	03	2527	294
74A1	28	15	20	05	1593	50
79A1	28	22	39	21	1310	82
79A2	28	22	41	48	1457	34
79A3	28	22	43	37	1565	121
80A1	29	00	16	14	1794	47
82A1	29	03	10	46	1567	164

NOTE: THE ABOVE DATA APPLIES ONLY TO THE MASTER (FWD) UNIT.

TO OBTAIN "CAMERA ON TIME" AND "TIME ON UP RAMP" FOR THE

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

SLAVE (AFT) UNIT, ADD 12 SECONDS TO EACH ENTRY EXCEPT FOR PASSES 8D1, 9D1, AND 68A1. ON 9D1 AND 68A1, ONLY THE FWD UNIT OPERATED (MONO). ON 20A1, ONLY THE AFT UNIT OPERATED (MONO). PARTIAL MONO COVERAGE WAS OBTAINED ON PASSES 8D1, 16A1, 32A1, 82A1, AND 82A2. THE OPERATING TIMES OF THE AFT UNIT ARE AS FOLLOWS:

8D1	24	13 49	55	2572	166
16A1	25	01 27	32	1712	45
20A1	25	07 22	40	1664	265
32A1	26	01 10	56	1811	19
82A1	29	03 10	58	1579	175
82A2	29	13 16	07	1888	37

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
10	281448.721	59459.1528	----
16	314954.427	6564.8592	.000
26	366866.516	58476.9475	.001
32	400357.225	5567.6552	.001
42	452247.052	57457.4789	.003
48	485719.439	4529.8629	.004
58	707.789	56389.1190	.005
64	34106.825	3388.1503	.005
74	85761.627	55042.9438	.008

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7

80 119194.642 2075.9524 .006

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

T O P S E C R E T

--END OF MESSAGE--

25X1

Approved For Release 2008/03/19 : CIA-RDP78B04558A001300020144-7